AMENDMENTS IN THE CLAIMS

(Currently Amended) A method for communicating comprising:
 controlling a user interface presented by a web browser comprising:

causing a web server to push an asynchronous message to the web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server,

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

causing the web browser to provide a wait request to the web server, the wait request being associated with the web browser;

identifying a source of the asynchronous message; and

associating the wait request with the source, wherein the associating identifies the web browser as a recipient of the asynchronous message.

- (Original) The method of claim 1 further comprising: generating the asynchronous message.
- 3. (Original) The method of claim 1 further comprising: preparing to receive the asynchronous message.
- 4-5. (Cancelled)
- 6. (Currently Amended) The method of claim 1 further comprising:

causing the web-browser to provide a wait request to the web server, the wait request being associated with the web browser;

generating the asynchronous message, the asynchronous message identifying the wait request, wherein the identifying identifies the web browser as a recipient of the asynchronous message; and

providing the asynchronous message to the web server.

7. (Original) The method of claim 6 wherein causing the web browser to provide the wait

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request comprises:

downloading requesting instructions to the web browser, wherein the downloading causes the web browser to execute the requesting instructions.

- 8. (Original) The method of claim 6 further comprising:
 storing a reference to a callback function with information from the wait request; and
 using the reference to call the callback function when the asynchronous message is
 provided to the web server, wherein the callback function pushes the
 asynchronous message.
- (Original) The method of claim 8 further comprising:
 providing the callback function with context information, the context information identifying the web browser.
- 10. (Original) The method of claim 6 further comprising: assigning the wait request to a connection between the web server and a business process server; and
- 11. (Original) The method of claim 6 further comprising:
 assigning the wait request to a session between the web server and a business process
 server, the session being associated with a connection; and
 listening to the connection for the asynchronous message for the session.
- 12. (Original) The method of claim 1 wherein causing the web server to push the asynchronous message comprises:

listening to the connection for the asynchronous message.

- calling a callback function associated with the web browser when the asynchronous message is received, wherein the callback function pushes the asynchronous message.
- 13. (Original) The method of claim 12 further comprising: storing a reference to the callback function; and using the reference for calling the callback function.

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14. (Original) The method of claim 13 further comprising:

storing a second reference to context information, the context information identifying the web browser; and

using the second reference for providing the context information to the callback function.

15. (Currently Amended) The method of claim [[0]] 1 wherein

the change in the user interface comprises at least one of a group consisting of the following:

causing a first user interface object to move to visually capture a user's attention; causing a second user interface object to issue a sound to capture the user's attention;

presenting a screen pop of data; and bringing a web browser window to front of screen.

16. (Currently Amended) A method for communicating comprising:

causing a web server to push an asynchronous message to a web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server,

the web browser performs an action in response to the asynchronous message, and

the incoming event is received by a communication server;

causing the web browser to provide a wait request to the web server, the wait request being associated with the web browser;

identifying a source of the asynchronous message; and

associating the wait request with the source, wherein the associating identifies the web browser as a recipient of the asynchronous message.

- 17. (Original) The method of claim 16 wherein
 - the asynchronous message includes an action instruction to cause the web browser to perform the action.
- 18. (Original) The method of claim 16 wherein the performing the action comprises

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performing at least one of a group consisting of the following:

causing a first user interface object to move to visually capture a user's attention; causing a second user interface object to issue a sound to capture the user's attention; presenting a screen pop of data; and bringing a web browser window to front of screen.

19. (Currently Amended) A method for communicating comprising: establishing a first connection between a web browser and a web server; establishing a second connection between the web server and a business process server;

registering the web browser with the business process server;

controlling a user interface presented by the web browser comprising:

providing the web server with an asynchronous message to push to the web

browser, the providing being performed by the business process server and the providing being performed in response to an incoming event, wherein the incoming event is an event other than a request for information from the web server;

and

causing the web server to push the asynchronous message to the web browser; wherein the web browser performs a user interface change in response to the

asynchronous message; [[and]]

the incoming event is received by a communication server;

causing the web browser to provide a wait request to the web server, the wait request being associated with the web browser;

identifying a source of the asynchronous message; and

associating the wait request with the source, wherein the associating identifies the web browser as a recipient of the asynchronous message.

20. (Currently Amended) A method for communicating comprising:

controlling a user interface presented by a web browser comprising:

registering the web browser as available to receive an asynchronous message,

wherein

the web browser is not blocked waiting for the asynchronous message;

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[[and]]

causing a web server to push the asynchronous message to the web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server,

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

causing the web browser to provide a wait request to the web server, the wait request being associated with the web browser;

identifying a source of the asynchronous message; and

associating the wait request with the source, wherein the associating identifies the web browser as a recipient of the asynchronous message.

21. (Currently Amended) A method for communicating comprising:

controlling a user interface presented by a web browser comprising:

causing the web browser to provide a wait request to a web server, the wait request being associated with the web browser;

identifying a source of an asynchronous message;

associating the wait request with the source, wherein the associating identifies the web browser as a recipient of the asynchronous message; [[and]]

pushing the asynchronous message to the web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server, [[and]]

the browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

causing the web browser to provide a wait request to the web server, the wait

request being associated with the web browser;

identifying a source of the asynchronous message; and

associating the wait request with the source, wherein the associating

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identifies the web browser as a recipient of the asynchronous message the incoming event is received by a communication server.

22. (Previously Presented) A method for communicating comprising: controlling a user interface presented by a web browser comprising:

causing the web browser to provide a wait request to a web server, wherein the wait request is associated with the web browser and a target from which an asynchronous message originates;

generating the asynchronous message, the asynchronous message identifying the web browser as a recipient of the asynchronous message, the generating being performed by the target;

providing the asynchronous message to the web server; and

causing the web server to push the asynchronous message to the web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server,

the web browser presents a user interface change in response to the asynchronous message; and

the incoming event is received by a communication server.

23. (Currently Amended) A computer program product comprising: controlling instructions to control a user interface presented by a web browser comprising:

pushing instructions to cause a web server to push an asynchronous message to the web browser in response to an incoming event, wherein the incoming event is an event other than a request for information from the web server,

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

providing instructions to cause the web browser to provide a wait request to the web server, the wait request being associated with the web browser;

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identifying instructions to identify a source of the asynchronous message; and
associating instructions to associate the wait request with the source, wherein the
associating identifies the web browser as a recipient of the asynchronous
message; and

a computer-readable medium for storing the controlling instructions [[and]], the pushing instructions, the providing instructions, the identifying instructions, and the associating instructions.

24. (Cancelled)

- 25. (Original) The computer program product of claim 23 further comprising: request providing instructions to cause the web browser to provide a wait request to the web server, the wait request being associated with the web browser;
 - generating instructions to generate the asynchronous message, the asynchronous message identifying the wait request, wherein the identifying identifies the web browser as a recipient of the asynchronous message; and

message providing instructions to provide the asynchronous message to the web server; wherein the computer-readable medium further stores the request providing instructions, the generating instructions, and the message providing instructions.

- 26. (Original) The computer program product of claim 25 further comprising: storing instructions to store a reference to a callback function with information from the wait request; and
 - using instructions to use the reference to call the callback function when the asynchronous message is provided to the web server, wherein the callback function pushes the asynchronous message;
 - wherein the computer-readable medium further stores the storing instructions and the using instructions.
- 27. (Original) The computer program product of claim 26 further comprising: context providing instructions to provide the callback function with context information, the context information identifying the web browser; wherein the computer-readable medium further stores the context providing instructions.

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28. (Original) The computer program product of claim 25 further comprising: assigning instructions to assign the wait request to a connection between the web server and a business process server; and listening instructions to listen to the connection for the asynchronous message;

wherein the computer-readable medium further stores the assigning instructions and the listening instructions.

29. (Original) The computer program product of claim 23 wherein the pushing instructions comprise:

calling instructions to call a callback function associated with the web browser when the asynchronous message is received, wherein the callback function pushes the asynchronous message;

and

the computer-readable medium further stores the calling instructions.

- 30. (Original) The computer program product of claim 29 further comprising: reference storing instructions to store a reference to the callback function; and reference using instructions to use the reference for calling the callback function; wherein the computer-readable medium further stores the reference storing instructions and the reference using instructions.
- 31. (Original) The computer program product of claim 30 further comprising:

 context storing instructions to store a second reference to context information, the context information identifying the web browser; and

context using instructions to use the second reference for providing the context information to the callback function;

wherein the computer-readable medium further stores the context storing instructions and the context using instructions.

32. (Original) The computer program product of claim 23 further comprising:
user interface changing instructions configured to perform at least one of a group
consisting of the following:
cause a first user interface object to move to visually capture a user's attention;

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cause a second user interface object to issue a sound to capture the user's attention;

present a screen pop of data; and

bring a web browser window to front of screen;

wherein the computer-readable medium further stores the user interface changing instructions.

33. (Currently Amended) A computer program product comprising:

controlling instructions to control a user interface presented by a web browser comprising:

registering instructions to register the web browser as available to receive an asynchronous message, wherein

the web browser is not blocked waiting for the asynchronous message; and

pushing instructions to cause a web server to push the asynchronous message to the web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from the web server.

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server; [[and]]

providing instructions to cause the web browser to provide a wait request to the web
server, the wait request being associated with the web browser;
identifying instructions to identify a source of the asynchronous message; and
associating instructions to associate the wait request with the source, wherein the
associating identifies the web browser as a recipient of the asynchronous
message; and

a computer-readable medium for storing the controlling instructions, the registering instructions, [[and]], the pushing instructions, the providing instructions, the identifying instructions, and the associating instructions.

a computer-readable medium for storing the controlling instructions [[and]], the pushing

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instructions.

34. (Currently Amended) A computer system comprising:

a processor;

a memory, the memory storing instructions for executing on the processor, the instructions comprising:

controlling instructions to control a user interface presented by a web browser comprising:

pushing instructions to cause a web server to push an asynchronous message to the web browser in response to an incoming event, wherein

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

providing instructions to cause the web browser to provide a wait

request to the web server, the wait request being associated

with the web browser;

identifying instructions to identify a source of the asynchronous message; and

associating instructions to associate the wait request with the source,

wherein the associating identifies the web browser as a

recipient of the asynchronous message.

35. (Cancelled)

36. (Original) The computer system of claim 34 wherein the instructions further comprise: request providing instructions to cause the web browser to provide a wait request to the web server, the wait request being associated with the web browser; generating instructions to generate the asynchronous message, the asynchronous message identifying the wait request, wherein the identifying identifies the web browser as a recipient of the asynchronous message; and

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message providing instructions to provide the asynchronous message to the web server.

37. (Original) The computer system of claim 36 wherein the instructions further comprise: storing instructions to store a reference to a callback function with information from the wait request; and using instructions to use the reference to call the callback function when the asynchronous message is provided to the web server, wherein the callback

function pushes the asynchronous message.

- 38. (Original) The computer system of claim 37 wherein the instructions further comprise: context providing instructions to provide the callback function with context information, the context information identifying the web browser.
- 39. (Original) The computer system of claim 36 wherein the instructions further comprise: assigning instructions to assign the wait request to a connection between the web server and a business process server; and listening instructions to listen to the connection for the asynchronous message.
- 40. (Original) The computer system of claim 34 wherein the pushing instructions comprise: calling instructions to call a callback function associated with the web browser when the asynchronous message is received, wherein the callback function pushes the asynchronous message.
- 41. (Original) The computer system of claim 40 wherein the instructions further comprise: reference storing instructions to store a reference to the callback function; and reference using instructions to use the reference for calling the callback function.
- 42. (Original) The computer system of claim 41 wherein the instructions further comprise: context storing instructions to store a second reference to context information, the context information identifying the web browser; and context using instructions to use the second reference for providing the context information to the callback function.
- 43. (Original) The computer system of claim 34 wherein the instructions further comprise: user interface changing instructions configured to perform at least one of a group consisting of the following:

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cause a first user interface object to move to visually capture a user's attention; cause a second user interface object to issue a sound to capture the user's attention;

present a screen pop of data; and bring a web browser window to front of screen.

44. (Currently Amended) A computer system comprising:

a processor;

a memory, the memory storing instructions for executing on the processor, the instructions comprising:

controlling instructions to control a user interface presented by a web browser comprising:

registering instructions to register the web browser as available to receive an asynchronous message, wherein

the web browser is not blocked waiting for the asynchronous message;

[[and]]

pushing instructions to cause a web server to push the asynchronous message to the web browser in response to an incoming event, wherein the incoming event is an event other than a request for information from the web server.

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server.

the web server, the wait request being associated with the web

browser;

identifying instructions to identify a source of the asynchronous message;

and

associating instructions to associate the wait request with the source, wherein
the associating identifies the web browser as a recipient of the
asynchronous message.

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45. (Currently Amended) A system comprising:

controlling means for controlling a user interface presented by a web browser comprising:

pushing means for causing a web server to push an asynchronous message to the web browser in response to an incoming event, wherein the incoming event is an event other than a request for information from the web server, [[and]]

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

providing means for causing the web browser to provide a wait request to the web
server, the wait request being associated with the web browser;
identifying means for identifying a source of the asynchronous message; and
associating means for associating the wait request with the source, wherein the
associating identifies the web browser as a recipient of the asynchronous
message.

46. (Cancelled)

- 47. (Original) The system of claim 45 further comprising:
 - request providing means for causing the web browser to provide a wait request to the web server, the wait request being associated with the web browser;
 - generating means for generating the asynchronous message, the asynchronous message identifying the wait request, wherein the identifying identifies the web browser as a recipient of the asynchronous message; and

message providing means for providing the asynchronous message to the web server.

- 48. (Original) The system of claim 47 further comprising:
 - storing means for storing a reference to a callback function with information from the wait request; and

using means for using the reference to call the callback function when the asynchronous

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message is provided to the web server, wherein the callback function pushes the asynchronous message.

- 49. (Original) The system of claim 48 further comprising: context providing means for providing the callback function with context information, the context information identifying the web browser.
- 50. (Original) The system of claim 47 further comprising:
 assigning means for assigning the wait request to a connection between the web server
 and a business process server; and
 listening means for listening to the connection for the asynchronous message.
- 51. (Original) The system of claim 45 wherein the pushing means comprise: calling means for calling a callback function associated with the web browser when the asynchronous message is received, wherein the callback function pushes the asynchronous message.
- 52. (Original) The system of claim 51 further comprising:
 reference storing means for storing a reference to the callback function; and
 reference using means for using the reference for calling the callback function.
- 53. (Original) The system of claim 52 further comprising: context storing means for storing a second reference to context information, the context information identifying the web browser; and context using means for using the second reference for providing the context information to the callback function.
- 54. (Original) The system of claim 45 further comprising:
 user interface changing means configured to perform at least one of a group consisting of the following:
 cause a first user interface object to move to visually capture a user's attention;
 cause a second user interface object to issue a sound to capture the user's attention;
 present a screen pop of data; and

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bring a web browser window to front of screen.

55. (Currently Amended) A system comprising:

controlling means for controlling a user interface presented by a web browser comprising:

registering means for registering the web browser as available to receive an asynchronous message, wherein the web browser is not blocked waiting for the asynchronous message;

and

pushing means for causing a web server to push the asynchronous message to the web browser in response to an incoming event, wherein the incoming event is an event other than a request for information from the web server.

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server

server, the wait request being associated with the web browser;

identifying means for identifying a source of the asynchronous message; and

associating means for associating the wait request with the source, wherein the

associating identifies the web browser as a recipient of the asynchronous

message.

- 56. (Cancelled)
- 57. (Cancelled)

58. (Currently Amended) A system comprising:

a controlling module to control a user interface presented by a web browser comprising:

a pushing module to cause a web server to push an asynchronous message to the

web browser in response to an incoming event, wherein

the incoming event is an event other than a request for information from

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the web server,

the web browser presents a user interface change in response to the asynchronous message, and

the incoming event is received by a communication server;

a request providing module to cause the web browser to provide a wait request to

the web server, the wait request being associated with the web browser;

an identifying module to identify a source of the asynchronous message; and

an associating module to associate the wait request with the source, wherein the

associating identifies the web browser as a recipient of the asynchronous

message.

- 59. (Cancelled)
- 60. (Previously Presented) The system of claim 58 further comprising:
 - a request providing module to cause the web browser to provide a wait request to the web server, the wait request being associated with the web browser;
 - a generating module to generate the asynchronous message, the asynchronous message identifying the wait request, wherein the identifying identifies the web browser as a recipient of the asynchronous message; and
 - a message providing module to provide the asynchronous message to the web server.
- 61. (Previously Presented) The system of claim 60 further comprising:
 - a storing module to store a reference to a callback function with information from the wait request; and
 - a using module to use the reference to call the callback function when the asynchronous message is provided to the web server, wherein the callback function pushes the asynchronous message.
- 62. (Previously Presented) The system of claim 61 further comprising:
 a context providing module to provide the callback function with context information, the
 context information identifying the web browser.
- 63. (Previously Presented) The system of claim 60 further comprising:

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- an assigning module to assign the wait request to a connection between the web server and a business process server; and a listening module to listen to the connection for the asynchronous message.
- 64. (Previously Presented) The system of claim 58 wherein the pushing means comprise: a calling module to call a callback function associated with the web browser when the asynchronous message is received, wherein the callback function pushes the asynchronous message.
- 65. (Previously Presented) The system of claim 64 further comprising:

 a reference storing module to store a reference to the callback function; and
 a reference using module to use the reference for calling the callback function.
- 66. (Previously Presented) The system of claim 65 further comprising:

 a context storing module to store a second reference to context information, the context information identifying the web browser; and

 a context using module to use the second reference for providing the context information to the callback function.
- 67. (Previously Presented) The system of claim 58 further comprising:

 a user interface changing module configured to perform at least one of a group consisting of the following:

 cause a first user interface object to move to visually capture a user's attention; cause a second user interface object to issue a sound to capture the user's attention;

present a screen pop of data; and bring a web browser window to front of screen.

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